

MULTILANE HIGHWAYS – HCS 2000 SUMMARY

Many different types of variables define multilane highway facilities. Some of these differ from that of a freeway, while some remain the same. Although many variables differ, the LOS indicator for a multilane facility remains the same as that of a freeway, and is given in passenger cars per mile per lane (pc/mi/ln). Based on the HCM sensitivity analysis, the following variables needed further examination in order to see if reasonable defaults could be determined:

- Access points per mile
- Divided facility
- Undivided facility
- Base free flow speed (BFFS)
- Percent trucks
- Grade
- Length of grade

Figures B14, B15, and B16 refer to changes in the LOS for access points per mile, divided and undivided facilities, and BFFS, respectively. These three variables show slight variations in the LOS as volumes incrementally increased. For multilane highways, these variables all showed “low” sensitivity on the LOS, thus reasonable defaults can be found.

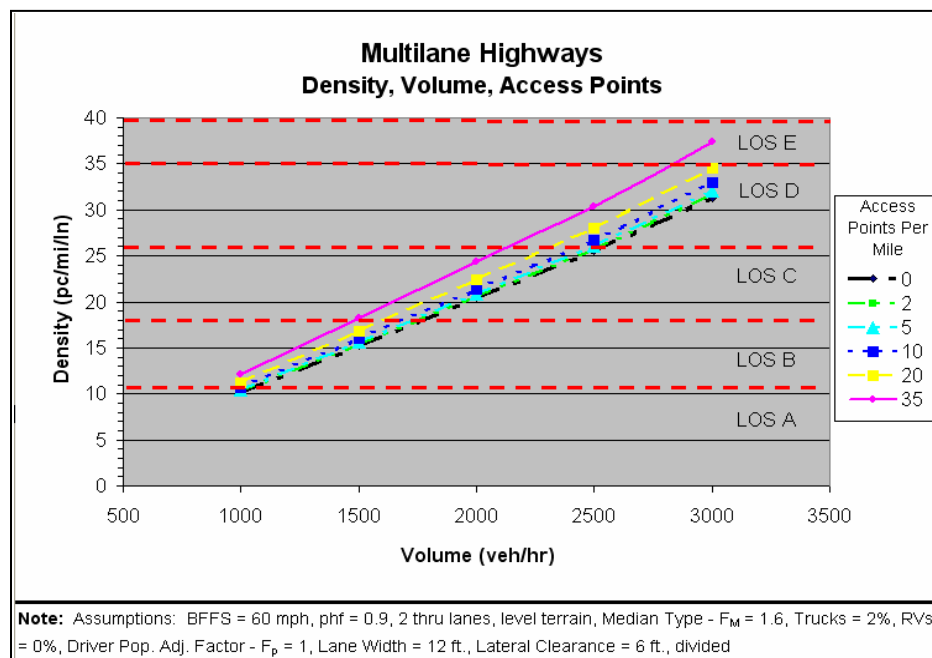


Figure B14. Access Points